What is claimed is:

1. A method for manufacturing a gate spacer for self-aligned contacts comprising:

forming a gate stack on a semiconductor substrate;

forming a conformal dielectric layer over the gate stack;

applying an etch-stop material layer over the conformal dielectric layer;

removing an upper portion of the etch-stop material layer to expose an upper portion of the conformal dielectric layer;

etching back the exposed conformal dielectric layer; removing the remaining etch-stop material layer; and etching back the etched-back conformal dielectric layer to form a gate spacer.

- 2. The method of claim 1, wherein the gate stack comprises a gate dielectric, a gate electrode, a hard mask, and a patterned oxide layer.
- 3. The method of claim 2, wherein a top surface of the gate spacer is substantially lower than that of the hard mask.
- 4. The method of claim 1, wherein a top portion of the gate spacer is approximately 400 Å higher than that of the gate electrode.
- 5. The method of claim 1, wherein the etch-stop material layer comprises an organic material.
- 6. The method of claim 5, wherein the etch-stop material layer is a photoresist layer.
- 7. The method of claim 6, wherein removing the photoresist layer comprises etching the photoresist layer using a gas mixture of SF₆, CF₄, O₂ and HBr.
- 8. The method of claim 1, wherein the etch-stop material layer is used as an etch stopper during etching of the exposed conformal dielectric layer.

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- 9. The method of claim 1, wherein a thickness of the etch-stop material layer is more than approximately 1000 Å.
 - 10. A method for manufacturing a semiconductor device comprising: forming a gate stack on a semiconductor substrate; forming a gate spacer on sidewalls of the gate stack, wherein the gate spacer includes a top portion substantially lower than a top of the gate stack.
 - 11. The method of claim 10, further comprising forming an interlayer insulating layer over the gate stack including the gate spacer.
 - 12. The method of claim 11, before forming an interlayer insulating layer, further comprising forming a blanket etching stop layer over the gate stack and the semiconductor substrate.
- 13. The method of claim 11, further comprising forming a self-aligned contact hole within the interlayer insulating layer adjacent the gate stack.
 - 14. A method of claim 13, further comprising: depositing a conductive material within the contact hole; and planarizing the conductive material to form a contact pad.